

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP110923\  
 Data File : BP018021.D  
 Acq On : 10 Nov 2023 10:15  
 Operator : MA/JU  
 Sample : 05091-14  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 DCKJ1

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/11/2023  
 Supervised By :mohammad ahmed 11/15/2023

Quant Time: Nov 10 22:40:54 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP110923.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Nov 09 22:34:38 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.863  | 152  | 80191    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.687 | 136  | 325454   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.539 | 164  | 200593   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.316 | 188  | 454469   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.445 | 240  | 445370   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.956 | 264  | 499749   | 20.000 | ng/u1  | -0.01    |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.246  | 96   | 4762     | 2.033  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 0.000  | 84   | 0d       | 0.000  | ng/u1  |          |
| 7) Phenol-d5                  | 7.034  | 99   | 86567    | 11.487 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.210  | 67   | 59353    | 13.002 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.387  | 132  | 74264    | 12.316 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.593  | 113  | 38591    | 6.385  | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.069  | 128  | 39112    | 13.420 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.787  | 143  | 39459    | 12.165 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.316 | 165  | 69773    | 12.007 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.875 | 131  | 43849    | 5.507  | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.957 | 166  | 254176   | 13.784 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.233 | 160  | 289318   | 14.635 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.822 | 143  | 19832m   | 7.343  | ng/u1  | 0.02     |
| 60) Fluorene-d10              | 15.539 | 176  | 231564   | 15.151 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.698 | 200  | 14113    | 4.447  | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.416 | 188  | 370805   | 15.227 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.668 | 212  | 487728   | 17.016 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.792 | 264  | 467421   | 16.091 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 50) Acenaphthylene            | 14.269 | 152  | 55230    | 2.439  | ng/u1  | 99       |
| 52) Acenaphthene              | 14.604 | 153  | 36174    | 2.405  | ng/u1  | 99       |
| 61) Fluorene                  | 15.598 | 166  | 31248    | 1.784  | ng/u1  | 98       |
| 71) Pentachlorophenol         | 16.957 | 266  | 4646m    | 1.340  | ng/u1  |          |
| 72) Phenanthrene              | 17.363 | 178  | 158311   | 5.596  | ng/u1  | 97       |
| 74) Anthracene                | 17.457 | 178  | 289758   | 10.131 | ng/u1  | 98       |
| 80) Fluoranthene              | 19.339 | 202  | 714804   | 21.546 | ng/u1  | 99       |
| 82) Pyrene                    | 19.704 | 202  | 728793   | 20.785 | ng/u1  | 96       |
| 85) Benzo(a)anthracene        | 21.427 | 228  | 349082   | 9.750  | ng/u1  | 99       |
| 87) Chrysene                  | 21.486 | 228  | 490166m  | 14.534 | ng/u1  |          |
| 90) Benzo(b)fluoranthene      | 23.180 | 252  | 653620   | 18.198 | ng/u1  | 98       |
| 91) Benzo(k)fluoranthene      | 23.227 | 252  | 180404m  | 5.032  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 23.845 | 252  | 233971   | 6.911  | ng/u1  | 94       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.627 | 276  | 221666   | 5.524  | ng/u1  | 98       |
| 95) Dibenzo(a,h)anthracene    | 26.639 | 278  | 55534    | 1.674  | ng/u1# | 91       |
| 96) Benzo(g,h,i)perylene      | 27.456 | 276  | 201598   | 6.296  | ng/u1  | 98       |
| -----                         |        |      |          |        |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

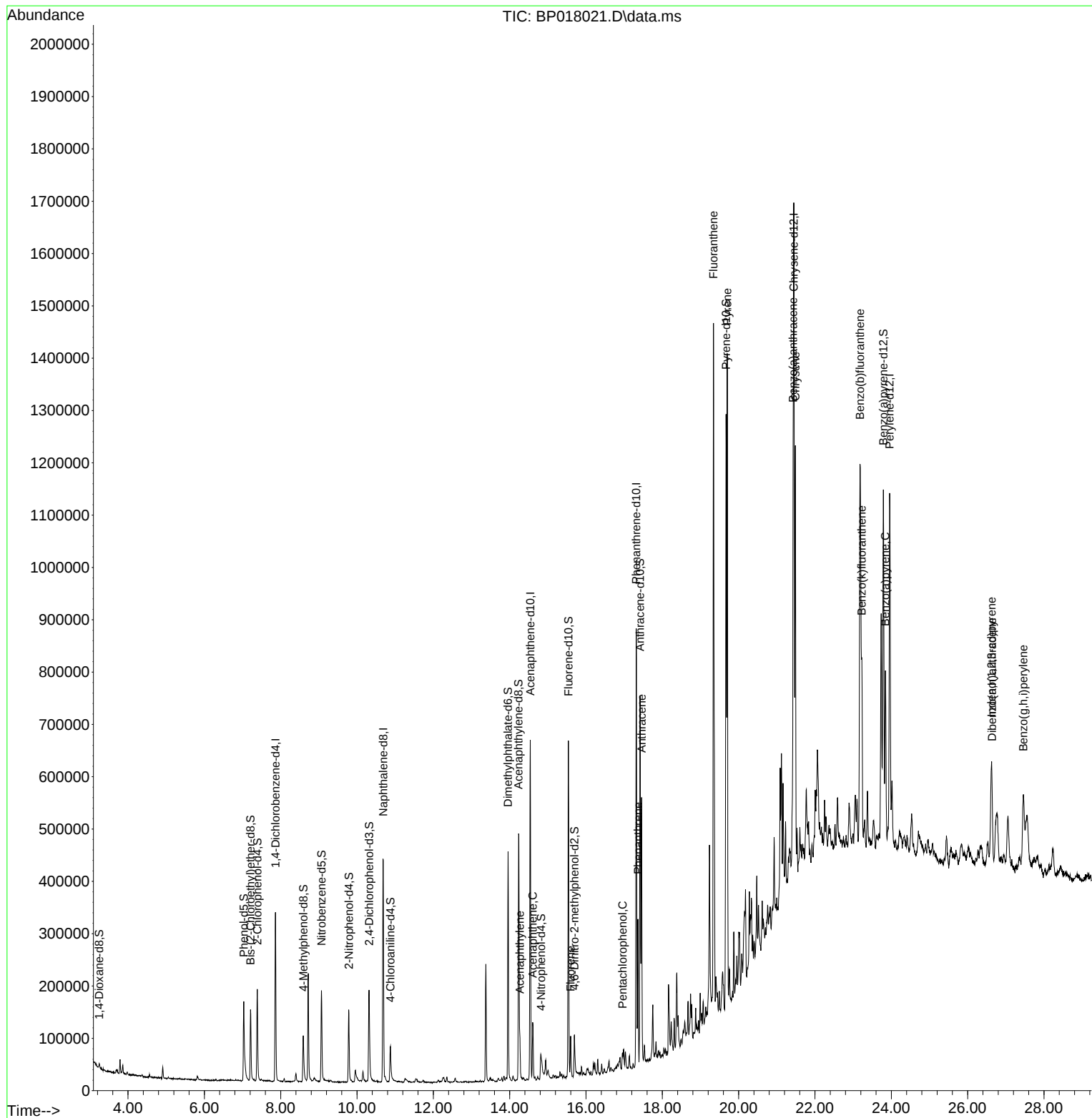
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Data File : BP018021.D  
Acq On : 10 Nov 2023 10:15  
Operator : MA/JU  
Sample : 05091-14  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

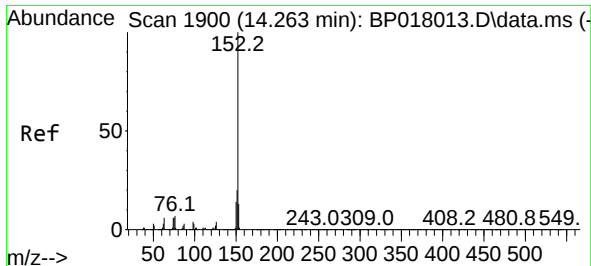
Instrument :  
BNA\_P  
ClientSampleId :  
DCKJ1

Quant Time: Nov 10 22:40:54 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP110923.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Nov 09 22:34:38 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/11/2023  
Supervised By :mohammad ahmed 11/15/2023





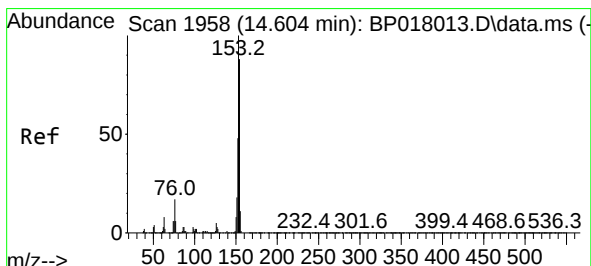
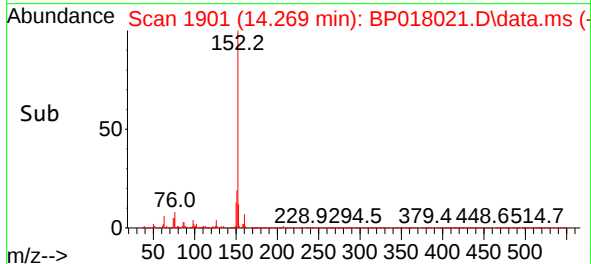
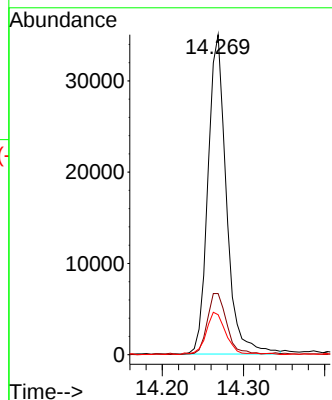
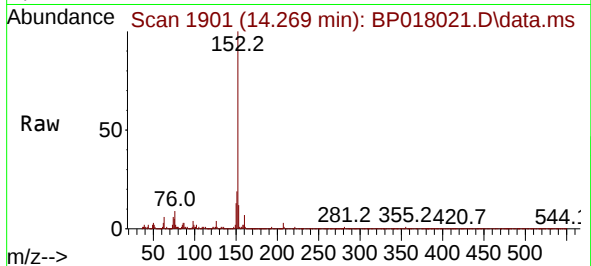
#50  
Acenaphthylene  
Concen: 2.439 ng/ul  
RT: 14.269 min Scan# 1900  
Delta R.T. -0.000 min  
Lab File: BP018021.D  
Acq: 10 Nov 2023 10:15

Instrument :  
BNA\_P  
ClientSampleId :  
DCKJ1

Tgt Ion:152 Resp: 55230  
Ion Ratio Lower Upper  
152 100  
151 19.1 15.5 23.3  
153 12.5 10.3 15.5

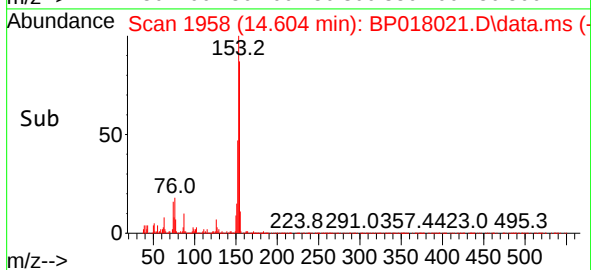
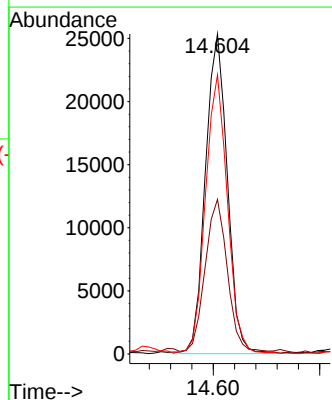
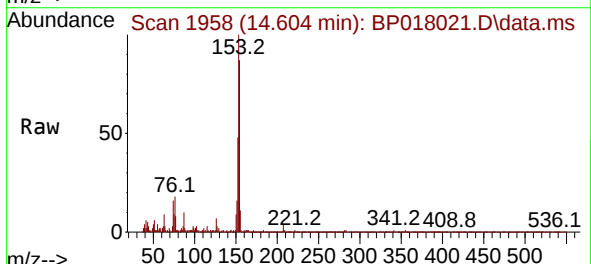
Manual Integrations  
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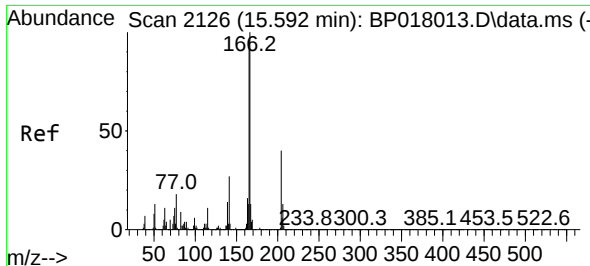
Reviewed By :Yogesh Patel 11/11/2023  
Supervised By :mohammad ahmed 11/15/2023



#52  
Acenaphthene  
Concen: 2.405 ng/ul  
RT: 14.604 min Scan# 1958  
Delta R.T. -0.006 min  
Lab File: BP018021.D  
Acq: 10 Nov 2023 10:15

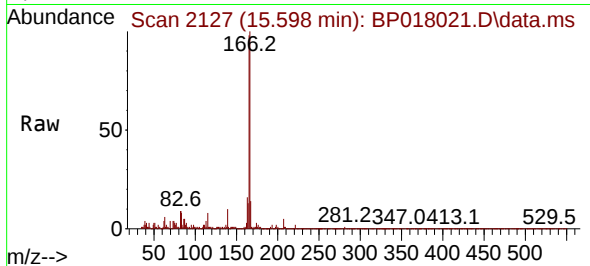
Tgt Ion:153 Resp: 36174  
Ion Ratio Lower Upper  
153 100  
152 48.3 38.2 57.2  
154 87.3 68.8 103.2





#61  
Fluorene  
Concen: 1.784 ng/ul  
RT: 15.598 min Scan# 2126  
Delta R.T. -0.000 min  
Lab File: BP018021.D  
Acq: 10 Nov 2023 10:15

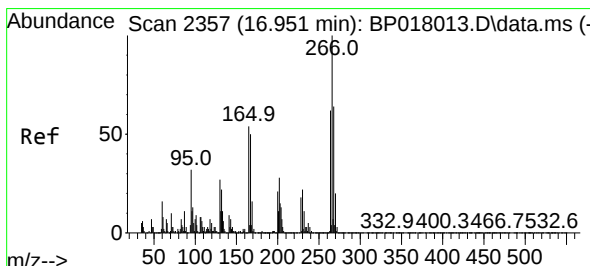
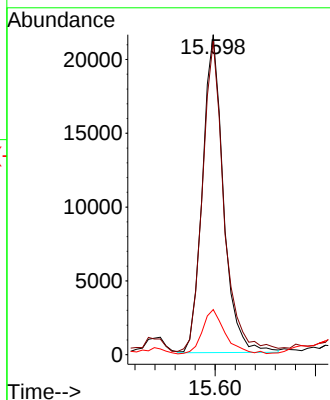
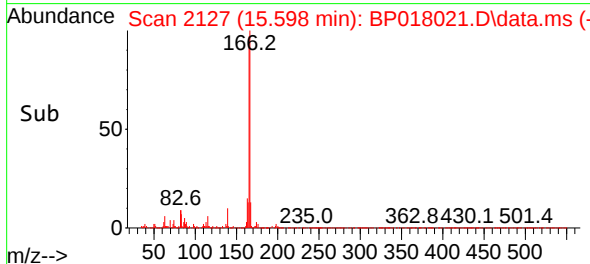
Instrument :  
BNA\_P  
ClientSampleId :  
DCKJ1



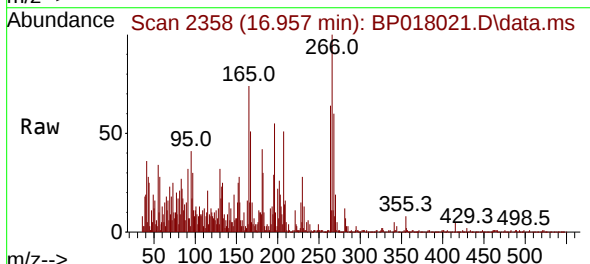
Tgt Ion:166 Resp: 3124  
Ion Ratio Lower Upper  
166 100  
165 98.0 80.2 120.2  
167 14.1 11.0 16.4

Manual Integrations  
APPROVED

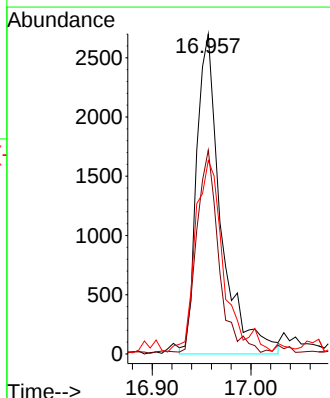
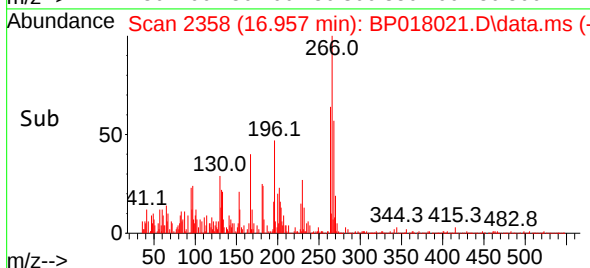
Reviewed By :Yogesh Patel 11/11/2023  
Supervised By :mohammad ahmed 11/15/2023

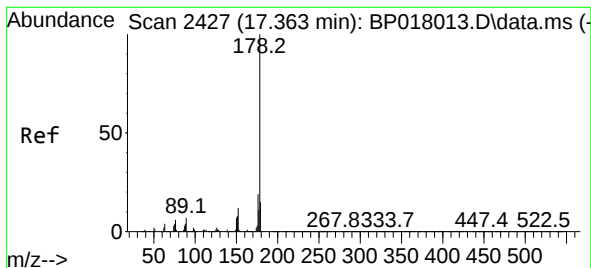


#71  
Pentachlorophenol  
Concen: 1.340 ng/ul m  
RT: 16.957 min Scan# 2358  
Delta R.T. -0.000 min  
Lab File: BP018021.D  
Acq: 10 Nov 2023 10:15



Tgt Ion:266 Resp: 4646  
Ion Ratio Lower Upper  
266 100  
264 63.7 48.4 72.6  
268 60.5 50.3 75.5





#72

Phenanthrene

Concen: 5.596 ng/ul

RT: 17.363 min Scan# 2427

Delta R.T. -0.006 min

Lab File: BP018021.D

Acq: 10 Nov 2023 10:15

Instrument :

BNA\_P

ClientSampleId :

DCKJ1

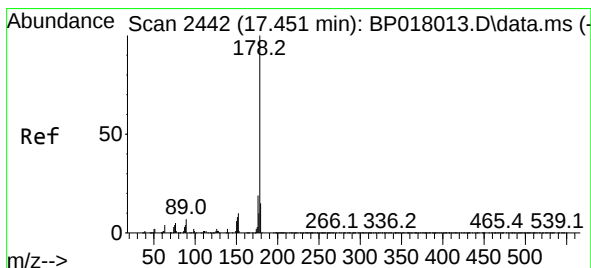
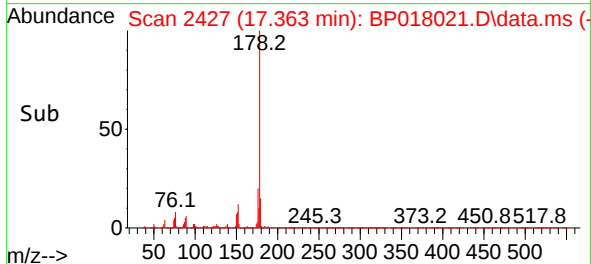
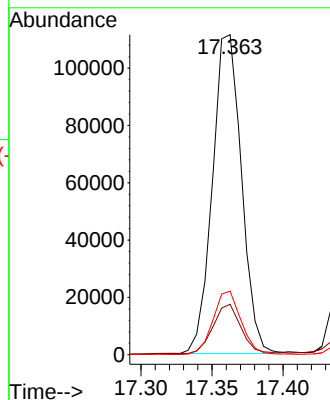
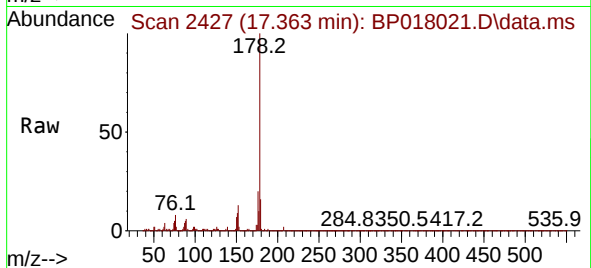
|             |             |
|-------------|-------------|
| Tgt Ion:178 | Resp: 15831 |
| Ion Ratio   | Lower Upper |
| 178 100     |             |
| 179 15.7    | 11.6 17.4   |
| 176 19.9    | 15.1 22.7   |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/11/2023

Supervised By :mohammad ahmed 11/15/2023



#74

Anthracene

Concen: 10.131 ng/ul

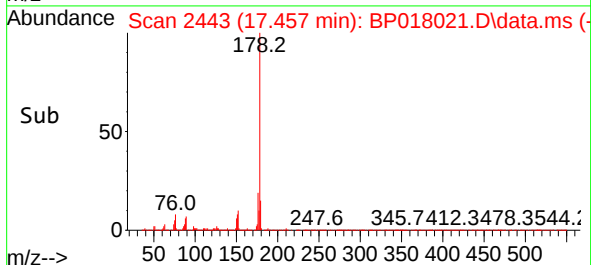
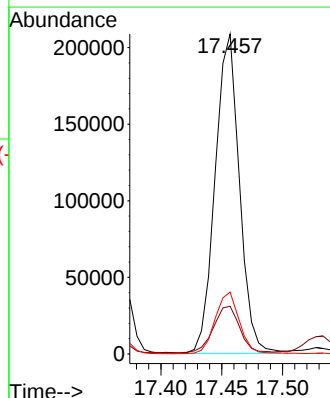
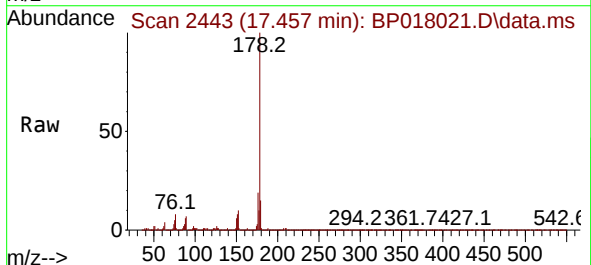
RT: 17.457 min Scan# 2443

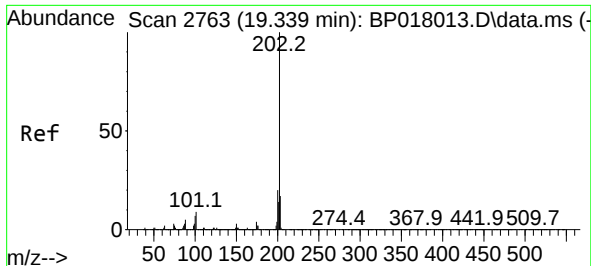
Delta R.T. -0.000 min

Lab File: BP018021.D

Acq: 10 Nov 2023 10:15

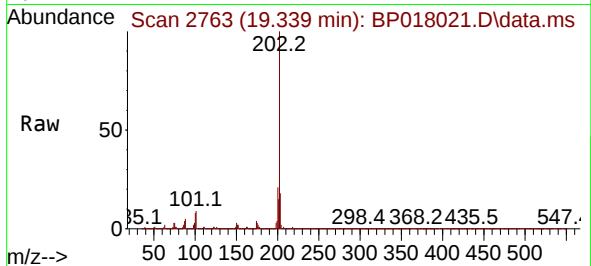
|             |              |
|-------------|--------------|
| Tgt Ion:178 | Resp: 289758 |
| Ion Ratio   | Lower Upper  |
| 178 100     |              |
| 179 14.9    | 12.9 19.3    |
| 176 19.3    | 15.1 22.7    |





#80  
Fluoranthene  
Concen: 21.546 ng/ul  
RT: 19.339 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BP018021.D  
Acq: 10 Nov 2023 10:15

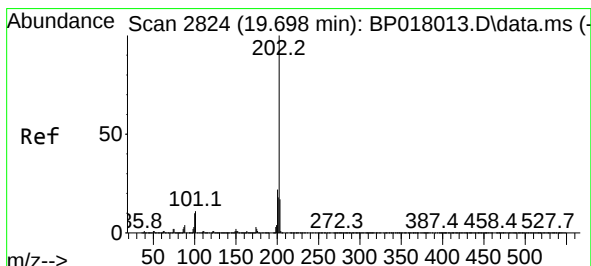
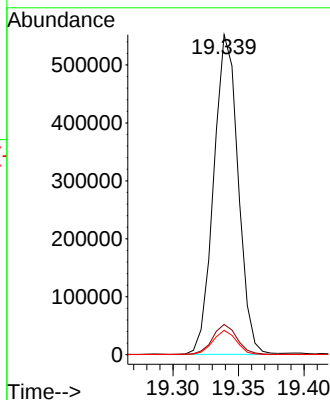
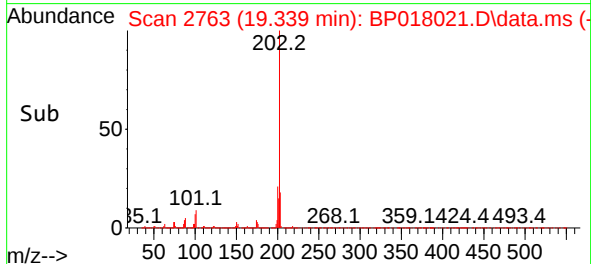
Instrument :  
BNA\_P  
ClientSampleId :  
DCKJ1



Tgt Ion:202 Resp: 714804  
Ion Ratio Lower Upper  
202 100  
101 9.5 7.4 11.0  
100 7.6 5.8 8.6

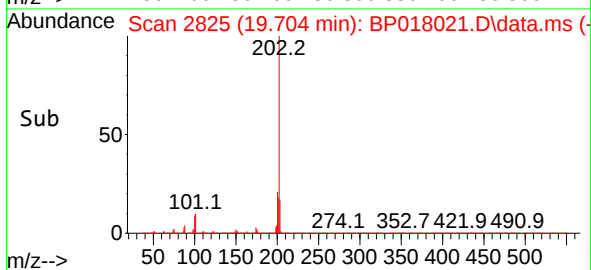
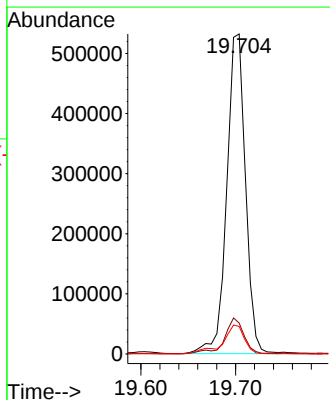
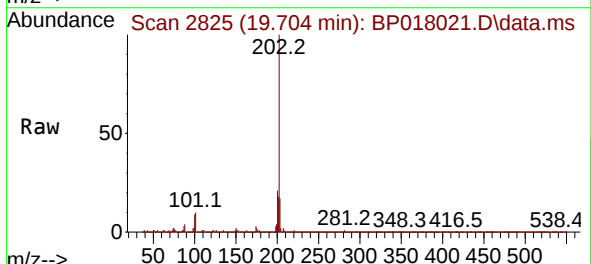
Manual Integrations  
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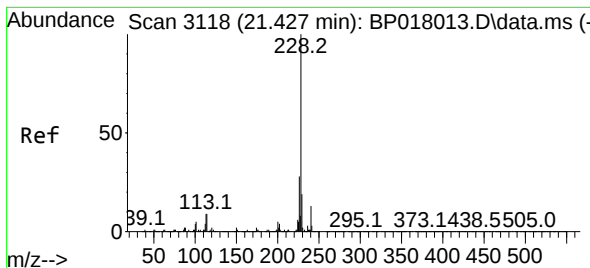
Reviewed By :Yogesh Patel 11/11/2023  
Supervised By :mohammad ahmed 11/15/2023



#82  
Pyrene  
Concen: 20.785 ng/ul  
RT: 19.704 min Scan# 2825  
Delta R.T. -0.000 min  
Lab File: BP018021.D  
Acq: 10 Nov 2023 10:15

Tgt Ion:202 Resp: 728793  
Ion Ratio Lower Upper  
202 100  
101 9.7 9.0 13.4  
100 8.6 7.8 11.8





#85

Benzo(a)anthracene

Concen: 9.750 ng/ul

RT: 21.427 min Scan# 3118

Delta R.T. -0.006 min

Lab File: BP018021.D

Acq: 10 Nov 2023 10:15

Instrument :

BNA\_P

ClientSampleId :

DCKJ1

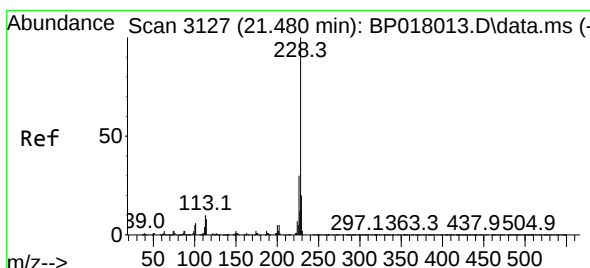
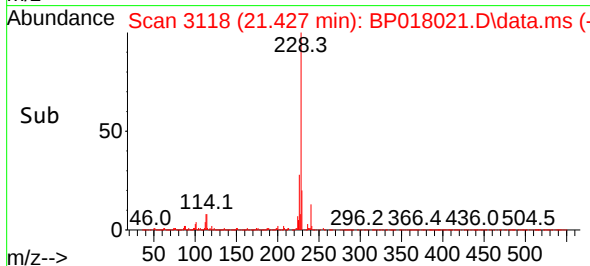
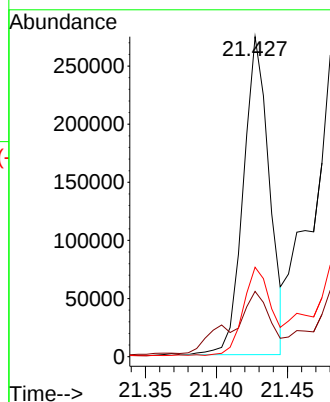
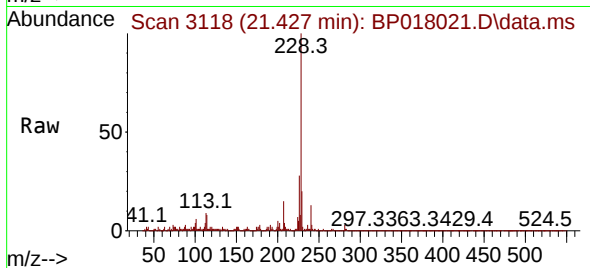
Tgt Ion:228 Resp: 34908  
 Ion Ratio Lower Upper  
 228 100  
 229 20.4 15.6 23.4  
 226 28.0 22.3 33.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/11/2023

Supervised By :mohammad ahmed 11/15/2023



#87

Chrysene

Concen: 14.534 ng/ul m

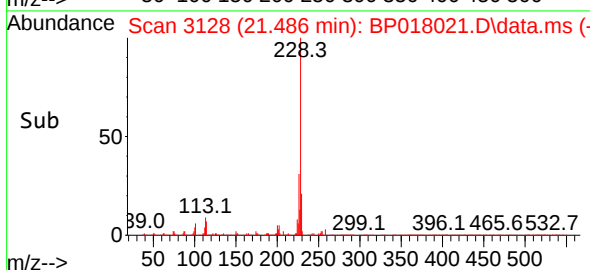
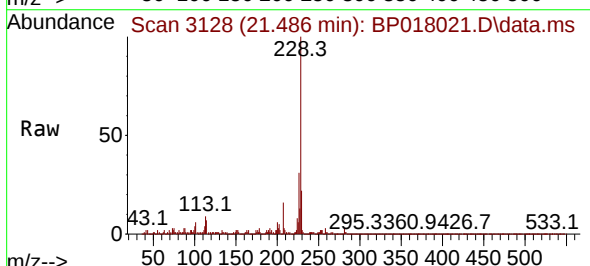
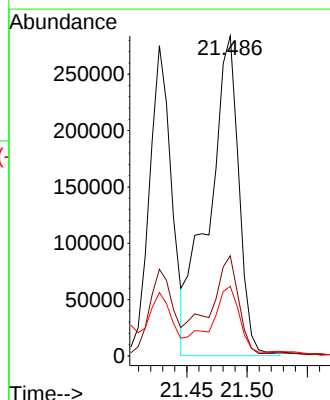
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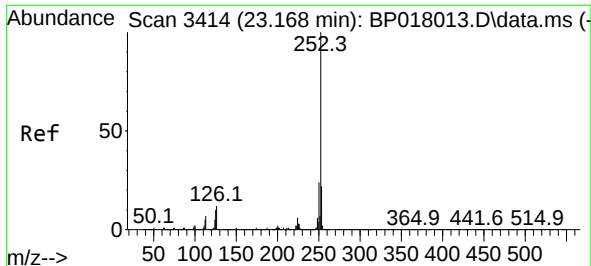
Delta R.T. -0.006 min

Lab File: BP018021.D

Acq: 10 Nov 2023 10:15

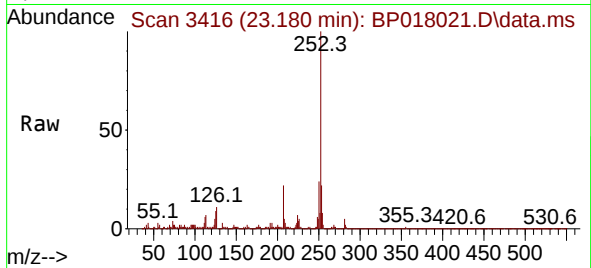
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 Ion Ratio Lower Upper  
 228 100  
 226 31.3 24.4 36.6  
 229 21.7 15.4 23.0





#90  
Benzo(b)fluoranthene  
Concen: 18.198 ng/ul  
RT: 23.180 min Scan# 3416  
Delta R.T. -0.000 min  
Lab File: BP018021.D  
Acq: 10 Nov 2023 10:15

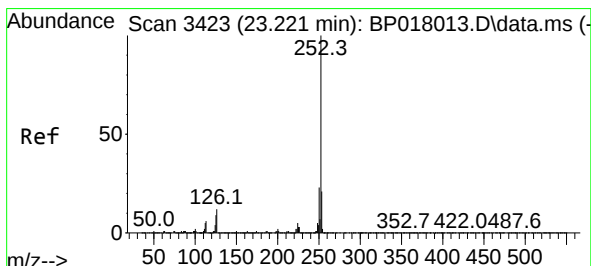
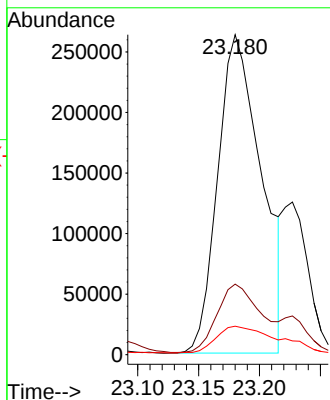
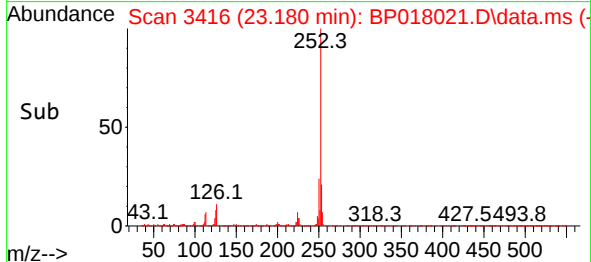
Instrument :  
BNA\_P  
ClientSampleId :  
DCKJ1



Tgt Ion:252 Resp: 653620  
Ion Ratio Lower Upper  
252 100  
253 22.0 17.0 25.4  
125 8.9 7.4 11.2

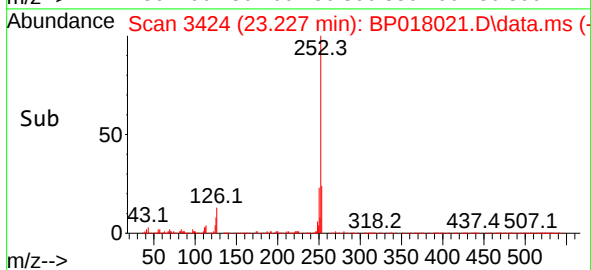
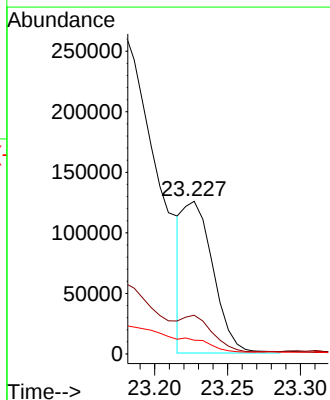
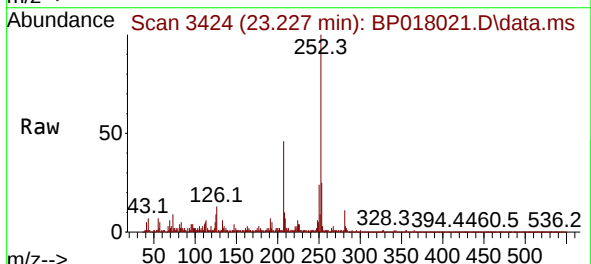
Manual Integrations  
APPROVED

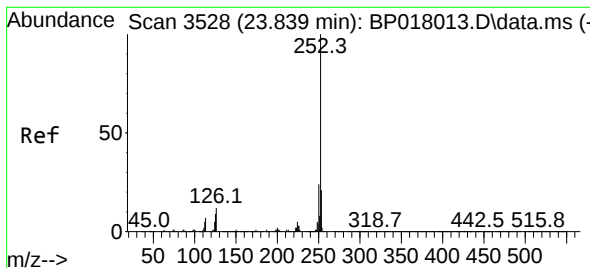
Reviewed By :Yogesh Patel 11/11/2023  
Supervised By :mohammad ahmed 11/15/2023



#91  
Benzo(k)fluoranthene  
Concen: 5.032 ng/ul m  
RT: 23.227 min Scan# 3424  
Delta R.T. -0.006 min  
Lab File: BP018021.D  
Acq: 10 Nov 2023 10:15

Tgt Ion:252 Resp: 180404  
Ion Ratio Lower Upper  
252 100  
253 25.3 17.8 26.6  
125 9.1 7.4 11.2





#93

Benzo(a)pyrene

Concen: 6.911 ng/ul

RT: 23.845 min Scan# 31

Delta R.T. -0.006 min

Lab File: BP018021.D

Acq: 10 Nov 2023 10:15

Instrument :

BNA\_P

ClientSampleId :

DCKJ1

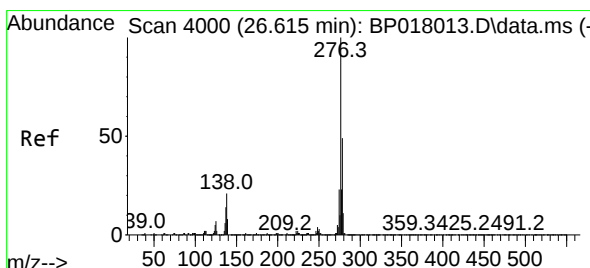
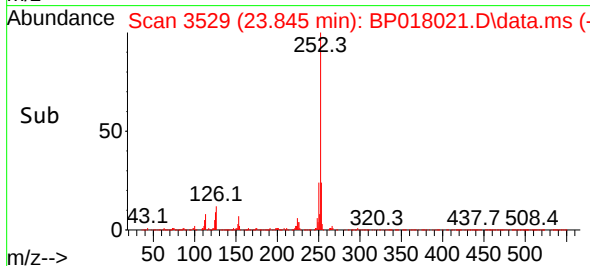
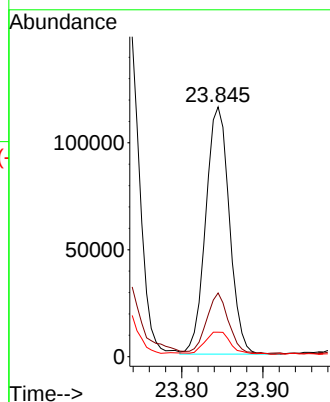
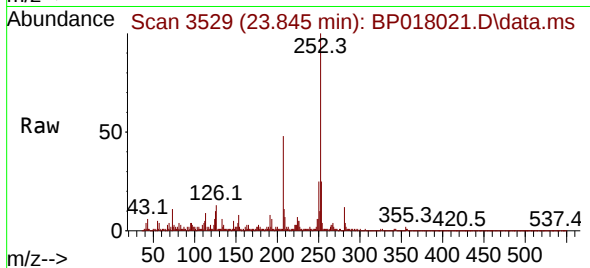
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 23397 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.5  | 17.4  | 26.0  |
| 125       | 9.8   | 7.8   | 11.8  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/11/2023

Supervised By :mohammad ahmed 11/15/2023



#94

Indeno(1,2,3-cd)pyrene

Concen: 5.524 ng/ul

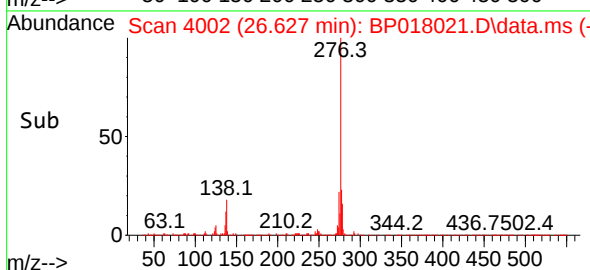
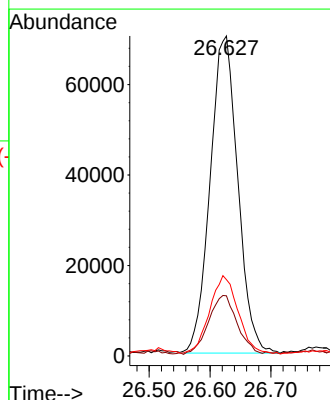
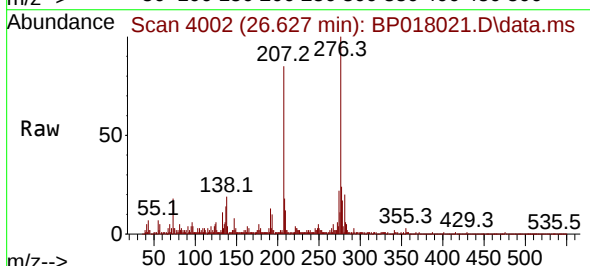
RT: 26.627 min Scan# 4002

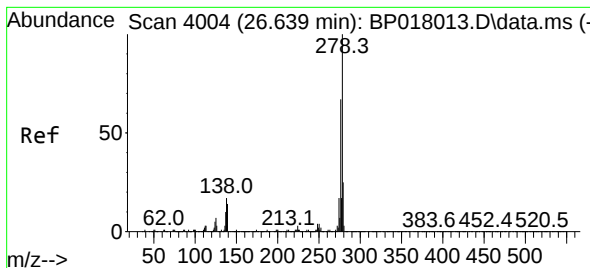
Delta R.T. -0.006 min

Lab File: BP018021.D

Acq: 10 Nov 2023 10:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 221666 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 18.8  | 16.2  | 24.4   |
| 277       | 23.8  | 18.8  | 28.2   |





#95

Dibenzo(a,h)anthracene

Concen: 1.674 ng/ul

RT: 26.639 min Scan# 4004

Delta R.T. -0.018 min

Lab File: BP018021.D

Acq: 10 Nov 2023 10:15

Instrument :

BNA\_P

ClientSampleId :

DCKJ1

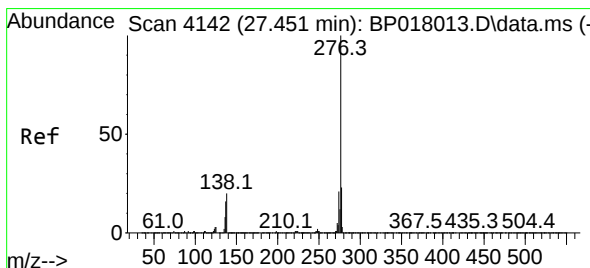
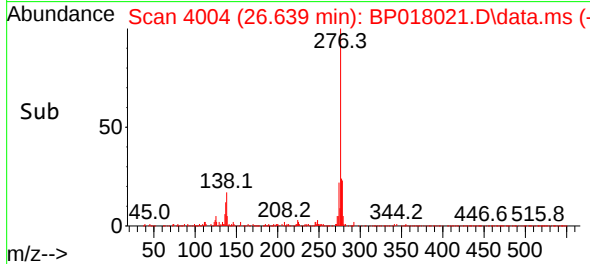
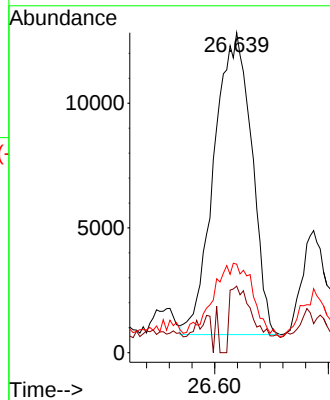
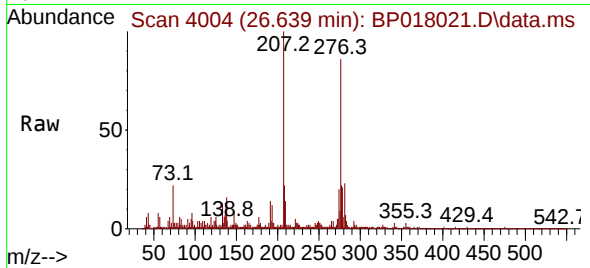
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 55534 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 20.8  | 11.9  | 17.9  |
| 279       | 27.6  | 19.7  | 29.5  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/11/2023

Supervised By :mohammad ahmed 11/15/2023



#96

Benzo(g,h,i)perylene

Concen: 6.296 ng/ul

RT: 27.456 min Scan# 4143

Delta R.T. -0.012 min

Lab File: BP018021.D

Acq: 10 Nov 2023 10:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 201598 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 18.3  | 15.0  | 22.6   |
| 277       | 25.3  | 19.0  | 28.6   |

